



Lancaster Laboratories
Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Analysis Report

Partial Report

Sample Description: **Ex. 6 - Personal Privacy**

Tetra Tech, Inc.
ELLE Sample #: **Ex. 6 - Personal Privacy**
ELLE Group #: **1891721**
Matrix: Water

Project Name: **Wolverine World Wide Tannery**

Submittal Date/Time: 12/29/2017 10:00

Collection Date/Time: 12/27/2017 10:15

SDG#: **Ex. 6 - Personal Privacy**

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. Organics		EPA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14070	Perfluorobutanesulfonate	375-73-5	N.D.	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	N.D.	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1

The recovery for PFTeDA and PFHxS in the laboratory fortified blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered preliminary as this sample will be re-extracted.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18003005	01/08/2018 04:42	Marissa C Drexinger	1

Sample Description: **Ex. 6 - Personal Privacy**

Tetra Tech, Inc.
ELLE Sample #: **Ex. 6 - Personal Privacy**
ELLE Group #: **1891721**
Matrix: Water

Project Name: **Wolverine World Wide Tannery**

Submittal Date/Time: 12/29/2017 10:00

Collection Date/Time: 12/27/2017 13:15

SDG#: **Ex. 6 - Personal Privacy**

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. Organics		EPA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14070	Perfluorobutanesulfonate	375-73-5	3 J	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1

Reference ID:
1891721100118093712



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Project Name:

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CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. Organics		EPA 537 Version 1.1	ng/l	ng/l	
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	3 J	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
14070	Perfluorononanoic acid	375-95-1	N.D.	2	1
14070	Perfluoro-octanesulfonate	1763-23-1	N.D.	2	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	2	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1

The recovery for PFTeDA and PFHxS in the laboratory fortified blank duplicate (LFBD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered preliminary as this sample will be re-extracted.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18003005	01/05/2018 06:39	Marissa C Drexinger	1

Sample Description:

Ex. 6 - Personal Privacy

Tetra Tech, Inc.
ELLE Sample #:
ELLE Group #:
Matrix: Water

Ex. 6 - Personal Privacy

Project Name:

Wolverine World Wide Tannery

Submittal Date/Time: 12/29/2017 10:00

Collection Date/Time: 12/27/2017 13:30

SDG#: Ex. 6 - Personal Privacy

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
Misc. Organics		EPA 537 Version 1.1	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	2	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14070	NMeFOSAA	2355-31-9	N.D.	2	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14070	Perfluorobutanesulfonate	375-73-5	4 J	2	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	2	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	2	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	2	1
14070	Perfluorohexanesulfonate	355-46-4	4 J	2	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	2	1
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Reference ID:

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14070	Perfluorotetradecanoic acid	376-06-7	N.D.	3	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	2	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	2	1

The recovery for PFTeDA and PFHxS in the laboratory fortified blank duplicate (LFD) is outside of QC acceptance limits as noted on the QC Summary. The data reported should be considered preliminary as this sample will be re-extracted.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	Full List PFAS - DW	EPA 537 Version 1.1	1	18003005	01/05/2018 06:50	Marissa C Drexinger	1

Reference ID:
1891721100118093712

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 10459 Group # 1891721 Sample # 9388930-51

COC # 540832

Client Information				Matrix				Analysis Requested												For Lab Use Only	
Client: <u>MSG / Tetra Tech</u>		Acct. #:		<input type="checkbox"/> Tissue <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input checked="" type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Sediment <input type="checkbox"/> Soil <input type="checkbox"/> Other:		Preservation Codes 0												FSC: _____			
Project Name/#: <u>Wolverine World Wide</u>		PWSID #:																SCR#: _____			
Project Manager: <u>BRENT RITCHIE</u>		P.O. #: <u>217808</u>														Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other					
Sampler: <u>BLR / C. Renner</u>		Quote #:														Remarks					
State where samples were collected: <u>MI</u>		For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																			
Sample Identification		Collected		Grab	Composite	Soil	Water	Other:	Total # of Containers	PEAS											
Date	Time																				
12/27/17	1015	X							2	X											
1	1015	X							2	X											
1	1015	X							1	X											
1	1050	X							2	X											
1	1110	X							2	X											
1	1110	X							2	X											
1	1110	X							1	X											
1	1210	X							2	X											
1	1210	X							1	X											
1	1315	X							2	X											

Turnaround Time (TAT) Requested (please circle)		Relinquished by		Date	Time	Received by		Date	Time
Standard		<u>Rush</u>		<u>12-27-17</u>		<u>2000</u>			
(Rush TAT is subject to laboratory approval and surcharge.)		Relinquished by		Date	Time	Received by		Date	Time
Date results are needed: <u>5-day</u>		Relinquished by		Date	Time	Received by		Date	Time
E-mail address: <u>britchie@munniksma.com</u>		Relinquished by		Date	Time	Received by		Date	Time
Data Package Options (circle if required)		Relinquished by		Date	Time	Received by		Date	Time
Type I (EPA Level 3 Equivalent/non-CLP)	Type VI (Raw Data Only)	Relinquished by		Date	Time	Received by		Date	Time
Type III (Reduced non-CLP)	NJ DKQP TX TRRP-13	Relinquished by		Date	Time	Received by		Date	Time
NYSDEC Category A or B	MA MCP CT RCP	Relinquished by		Date	Time	Received by		Date	Time
EDD Required? <u>Yes</u> No		Relinquished by Commercial Carrier:							
If yes, format: _____		UPS _____ FedEx <u>X</u> Other _____							
Site-Specific QC (MS/MSD/Dup)? <u>Yes</u> No		Temperature upon receipt <u>5.6</u> °C							
(If yes, indicate QC sample and submit triplicate sample volume.)									

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The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0216

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 10459 Group # 1891721 Sample # 9388930-51

COC # 540831

Client Information				Matrix				Analysis Requested												For Lab Use Only																																																																																																													
Client: <u>MSG/Tetra Tech</u>		Acct. #:		<input type="checkbox"/> Tissue <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input checked="" type="checkbox"/> NPDES <input type="checkbox"/> Water <input type="checkbox"/> Other:		<div style="display: flex; justify-content: space-between;"> <div> Preservation Codes H=HCl T=Thiosulfate N=HNO₃ B=NaOH S=H₂SO₄ O=Other </div> <div> Remarks </div> </div>												FSC: _____																																																																																																															
Project Name/#: <u>Wolverine World Wide</u>		PWSID #:				<div style="display: flex;"> <div style="flex: 1;"> Sample Identification <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Collected</th> <th rowspan="2">Grab</th> <th rowspan="2">Composite</th> <th rowspan="2">Soil</th> <th rowspan="2">Sediment</th> <th rowspan="2">Water</th> <th rowspan="2">Other:</th> <th rowspan="2">Total # of Containers</th> <th rowspan="2">PFAS</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr><td>12/7/17</td><td>1315</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>X</td></tr> <tr><td></td><td>1330</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>X</td></tr> <tr><td></td><td>1420</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>X</td></tr> <tr><td></td><td>1420</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>X</td></tr> <tr><td></td><td>1430</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>X</td></tr> <tr><td></td><td>1500</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>X</td></tr> <tr><td></td><td>1500</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>X</td></tr> <tr><td></td><td>1505</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>X</td></tr> <tr><td></td><td>1555</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>X</td></tr> <tr><td></td><td>1555</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>X</td></tr> </tbody> </table> </div> <div style="flex: 1; border-left: 1px solid black; padding-left: 5px;"> Ex. 6 - Personal Privacy </div> </div>												Collected		Grab	Composite	Soil	Sediment	Water	Other:	Total # of Containers	PFAS	Date	Time	12/7/17	1315	X						1	X		1330	X						2	X		1420	X						2	X		1420	X						1	X		1430	X						2	X		1500	X						2	X		1500	X						1	X		1505	X						2	X		1555	X						2	X		1555	X						1	X
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Ex. 6 - Personal Privacy

Turnaround Time (TAT) requested (please circle)

Standard

Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: 5-Day

E-mail address: Britchie@Manniksmithgroup.com

Data Package Options (circle if required)

Type I (EPA Level 3

Type VI (Raw Data Only)

Equivalent/non-CLP)

Type IV

Type III (Reduced non-CLP)

NJ DKQP

TX TRRP-13

NYSDEC Category A or B

MA MCP

CT RCP

EDD Required? Yes No

If yes, format: _____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Relinquished by Commercial Carrier:

UPS _____ FedEx X Other _____

Temperature upon receipt 3.6 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

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7044 0216

Environmental Analysis Request/Chain of Custody



**Lancaster Laboratories
Environmental**

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 10459 Group # 1891721 Sample # 9388936-51

COC # 540833

[illegible]



Lancaster Laboratories
Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 205017



Group Number(s): 1891721

Client: MSG/TETRA TECH

Delivery and Receipt Information

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>12/29/2017 10:00</u>
Number of Packages:	<u>4</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>MI</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Wendy Wakeley (1669) at 11:06 on 12/29/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT146	3.6	DT	Wet	Y	Bagged	N
2	DT146	1.3	DT	Wet	Y	Bagged	N
3	DT146	0.4	DT	Wet	Y	Bagged	N
4	DT146	1.0	DT	Wet	Y	Bagged	N



Lancaster Laboratories
Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mg	milligram(s)
C	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	non-detect
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	µg	microgram(s)
m3	cubic meter(s)	µL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.

Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.